04/24/2006 02:41 7349946331 **BHGL** PAGE 03/12

Appl. No. 10/811,417

Attorney Docket No. 11721-043

I. Listing of Claims

1. (Currently Amended) A pedestrian protection apparatus for a motor

vehicle comprising:

a grill affixed to [[the]] a front end structure of the motor vehicle,

an actuator coupled to the grill for moving the grill between a retracted

position and an extended position, with the grill in the extended position

providing impact protection for a pedestrian impacted by the motor vehicle

through energy absorption through retraction of the grill against the actuator,

a control unit for controlling the actuator based at least in part on the

forward speed of the motor vehicle;

wherein when the forward speed of the motor vehicle is greater than or

equal to a first predetermined threshold, and the grill is in the extended

position, the control unit causes the grill to move to the retracted position; and

wherein when the forward speed of the motor vehicle is less than er

equal to the first predetermined threshold and greater than or equal to a

second predetermined threshold, and the grill is in the retracted position, the

control unit causes the grill to move to the extended position.

2. (Original) The pedestrian protection apparatus according to claim 1

wherein the motor vehicle further includes a bumper located below the grill,

the grill positioned forward of the bumper in the extended position and

rearward of the bumper in the retracted position.

RINKE HOFER 04/24/2006 02:41 7349946331 BHGL PAGE 04/12

Attorney Docket No. 11721-043

Appl. No. 10/811,417

(Cancelled)

(Cancelled)

5. (Original) The pedestrian protection apparatus according to claim 1

wherein the actuator comprises a pinion gear driving a toothed rack with the

toothed rack coupled with the grill.

6. (Original) The pedestrian protection apparatus according to claim 1

wherein the actuator has elements which mechanically fail to provide energy

absorption upon the impacting of the motor vehicle with the pedestrian.

7. (Currently Amended) The pedestrian protection apparatus according to

claim 1 wherein the actuator comprises at least two of the actuators [[are]]

provided for moving the grill.

8. (Original) The pedestrian protection apparatus according to claim 1

wherein the grill includes apertures for vehicle headlights.

9. (Original) The pedestrian protection apparatus according to claim 1

wherein the grill outside perimeter substantially encompasses the frontal

surface of the front end structure of the motor vehicle.

10. (Cancelled)

HOFER GILSON BLIONE BRINKS HOFER GILSON & LIONE PO Box 10395

Chicago, IL 60611-5599

04/24/2006 02:41 7349946331 BHGL PAGE 05/12

Appl. No. 10/811,417

Attorney Docket No. 11721-043

11. (Currently Amended) The pedestrian protection apparatus according to

claim [[10]] 1 wherein the [[first]] second predetermined threshold speed is

about 8 to 10 mph and the first predetermined threshold speed is about 35 to

37 mph.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Original) The pedestrian protection apparatus according to claim 1

further comprising an impact sensor coupled with the apparatus to detect an

impact with the grill in the extended position.

17. (Currently Amended) The pedestrian protection apparatus according to

claim 1 wherein the pedestrian protection apparatus provides energy

absorption when the grill is in the extended position for a pedestrian in the 25

pound to 250 pound range, struck by the motor vehicle in the 1500 pound to

6000 pound range, at a speed of the motor vehicle between 8 mph and 35

mph.

GRINKS HOFER GILSON &LIONE BRINKS HOFER GILSON & LIONE PO Box 10395 Chicago, IL 60611-5599 -4-

PAGE 06/12 04/24/2006 02:41 7349946331 BHGL

Appl. No. 10/811,417

Attorney Docket No. 11721-043

18. (Original) The pedestrian protection apparatus according to claim 1

wherein the control unit operates automatically without intervention by an

occupant of the motor vehicle.

19. (Currently Amended) A pedestrian protection apparatus for a motor

vehicle comprising:

a grill affixed to [[the]] a front end structure of the motor vehicle above a

front bumper of the motor vehicle.

an actuator coupled to the grill for moving the grill between a retracted

position and an extended position wherein the apparatus is configured to

provide, when the grill is in the extended position, pedestrian energy

absorption upon the impacting of the motor vehicle with the pedestrian,

thereby reducing injury to the pedestrian through energy absorption through

retraction of the grill against the actuator, [[and]]

a control unit for controlling the actuator based at least in part on the

forward speed of the motor vehicle; and

wherein the control unit responds to speed of the motor vehicle such

that if the vehicle speed is above a first predetermined threshold and the grill

Is in the extended position, the control unit causes the grill to move to the

retracted position.

20. (Original) The pedestrian protection apparatus according to claim 19

wherein the grill is positioned forward of the bumper in the extended position

and rearward of the bumper in the retracted position.

04/24/2006 02:41 7349946331 BHGL PAGE 07/12

Attorney Docket No. 11721-043

Appl. No. 10/811,417

21. (Cancelled)

22. (Original) The pedestrian protection apparatus according to claim 19

wherein the actuator comprises a pinion gear driving a toothed rack with the

toothed rack coupled with the grill.

23. (Original) The pedestrian protection apparatus according to claim 19

wherein the actuator has elements which mechanically fail to provide energy

absorption upon the impacting of the motor vehicle with the pedestrian.

24. (Currently Amended) The pedestrian protection apparatus according to

claim 19 wherein the actuator comprises at least two of the actuators [[are]]

provided for moving the grill.

25. (Original) The pedestrian protection apparatus according to claim 19

wherein the grill includes apertures for vehicle headlights.

26. (Original) The pedestrian protection apparatus according to claim 19

wherein the grill outside perimeter substantially encompasses the frontal

surface of the front end structure of the motor vehicle.

27. (Previously Presented) The pedestrian protection apparatus according

to claim 19 wherein the control unit responds to speed of the motor vehicle

such that if the vehicle speed is above a predetermined threshold and the grill

BRINKS HOFER BILBON &LIONE BRINKS HOFER GILSON & LIONE PO Box 10395

Chicago, IL 60611-5599

Appl. No. 10/811,417

Attorney Docket No. 11721-043

is in the retracted position, the control unit causes the grill to move to the extended position.

28. (Previously Presented) The pedestrian protection apparatus according to claim 27 wherein the predetermined threshold is between 10 mph and 35 mph.

29. (Currently Amended) The pedestrian protection apparatus according to claim 19 wherein the control unit responds to speed of the motor vehicle such that if the vehicle speed is below a <u>second</u> predetermined threshold and the grill is in the extended position, the control unit causes the grill to move to the retracted position.

30. (Currently Amended) The pedestrian protection apparatus according to claim 29 wherein the <u>second</u> predetermined threshold is about 8 mph.

31. (Cancelled)

32. (Currently Amended) The pedestrian protection apparatus according to claim [[31]] 19 wherein the predetermined threshold is about 37 mph.

33. (Original) The pedestrian protection apparatus according to claim 19 further comprising an impact sensor coupled with the apparatus to detect an impact with the grill in the extended position.

BRINKS HOFER CILSON ALIONE BRINKS HOFER GILSON & LIONE PO Box 10395 Chicago, IL 60611-5599

- 7 -

Appl. No. 10/811,417

Attorney Docket No. 11721-043

- 34. (Currently Amended) The pedestrian protection apparatus according to claim 19 wherein the pedestrian protection apparatus provides energy absorption when the grill is in the extended position for a pedestrian in the 25 pound to 250 pound range, struck by the motor vehicle in the 1500 pound to 6000 pound range, at a speed of the motor vehicle between 8 mph and 35 mph.
- 35. (Original) The pedestrian protection apparatus according to claim 19 wherein the control unit operates automatically without intervention by an occupant of the motor vehicle.
- 36. (Cancelled)
- 37. (Cancelled)
- 38. (Cancelled)
- 39. (Cancelled)
- 40. (Cancelled)
- 41. (Cancelled)



PAGE 10/12

7349946331

49.

(Cancelled)